

LOCUS HSFGRF 2733 bp mRNA linear PRI 23-MAR-1995
 DEFINITION Human mRNA for fibroblast growth factor (FGF) receptor.
 ACCESSION X51803
 VERSION X51803.1 GI:31367
 KEYWORDS FGF receptor; FGF receptor gene; fibroblast growth factor receptor;
 FLG gene; receptor; transmembrane protein; tyrosine kinase.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 2733)
 AUTHORS Isacchi, A.
 TITLE Direct Submission
 JOURNAL Submitted (06-FEB-1990) Isacchi A., Farmitalia Carlo Erba,
 Vialebezzi 24, 20146 Milano, Italy
 REFERENCE 2 (bases 1 to 2733)
 AUTHORS Isacchi, A., Bergonzoni, L. and Sarmientos, P.
 TITLE Complete sequence of a human receptor for acidic and basic
 fibroblast growth factors
 JOURNAL Nucleic Acids Res. 18 (7), 1906 (1990)
 MEDLINE 90245600
 FEATURES
 source Location/Qualifiers
 1. .2733
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 /db_xref="taxon:9606"
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 CDS 118. .2586
 /note="precursor polypeptide (AA -21 to 801)"
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 /protein_id="CAA36101.1"
 /db_xref="GI:31368"
 /db_xref="SWISS-PROT:P11362"

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 BASE COUNT 623 a 810 c 765 g 533 t 2 others
 ORIGIN

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Quality: 4328.00 Length: 822
Ratio: 5.284 Gaps: 1
Percent Similarity: 99.635 Percent Identity: 99.513

alignment_block:

US-09-620-561-1 x HSFGR ..

Align seg 1/1 to: HSFGR from: 1 to: 2733

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168 ACTCTGCACCGCTAGGCCGTCCCCGACCTTGCCTGAACAAGCCCAGCCCT 217

34 rpGlyAlaProValGluValGluSerPheLeuValHisProGlyAspLeu 50
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218 GGGGAGCCCCCTGTGGAAGTGGAGTCCTTCCTGGTCCACCCCGGTGACCTG 267

51 LeuGlnLeuArgCysArgLeuArgAspAspValGlnSerIleAsnTrpLe 67
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67 uArgAspGlyValGlnLeuAlaGluSerAsnArgThrArgIleThrGlyG 84
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318 GCGGGACGGGGTGCAGCTGGCGGAAAGCAACCGCACCCGCATCACAGGGG 367

84 luGluValGluValGlnAspSerValProAlaAspSerGlyLeuTyrAla 100
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368 AGGAGGTGGAGGTGCAGGACTCCGTGCCCCGAGACTCCGGCCTCTATGCT 417

101 CysValThrSerSerProSerGlyLysAspThrThrTyrPheSerValAs 117
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418 TGCGTAACCAGCAGCCCCTCGGGCAGTGACACCACCTACTTCTCCGTCAA 467

117 nValSerAspAlaLeuProSerSerGluAspAspAspAspAspAspS 134
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468 TGTTTCAGATGCTCTCCCCTCCTCGGAGGATGATGATGATGATGATGACT 517

134 erSerSerGluGluLysGluThrAspAsnThrLysProAsn.....Pro 148
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518 CCTCTTCAGAGGAGAAAGAAACAGATAACACCAAACCAAACCGTATGCCC 567

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568 GTAGCTCCATATTGGACATCCCCAGAAAAGATGGAAAAGAAATTGCATGC 617

165 aValProAlaAlaLysThrValLysPheLysCysProSerSerGlyThrP 182
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618 AGTGCCGGCTGCCAAGACAGTGAAGTTCAAATGCCCTTCCAGTGGGACCC 667

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265 lAlaLeuGlySerAsnValGluPheMetCysLysValTyrSerAspProG 282
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Sequence Comparison B

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FGR1_HUMAN
ID   FGR1_HUMAN          STANDARD;          PRT;      822 AA.
AC   P11362; P17049;
DT   01-JUL-1989 (Rel. 11, Created)
DT   01-MAY-1991 (Rel. 18, Last sequence update)
DT   01-MAR-2002 (Rel. 41, Last annotation update)
DE   Basic fibroblast growth factor receptor 1 precursor (EC 2.7.1.112)
DE   (FGFR-1) (bFGF-R) (Fms-like tyrosine kinase-2) (c-fgr).
GN   FGFR1 OR FLG OR FGFR OR FLT2.
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.

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RC TISSUE=Placenta;
 RX MEDLINE=90245600; PubMed=2159626;
 RA Isacchi A., Bergonzoni L., Sarmientos P.;
 RT "Complete sequence of a human receptor for acidic and basic
 RT fibroblast growth factors.";
 RL Nucleic Acids Res. 18:1906-1906(1990).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Neonatal brain stem;
 RX MEDLINE=90360977; PubMed=1697263;
 RA Dionne C.A., Crumley G.R., Bellot F., Kaplow J.M., Searfoss G.,
 RA Ruta M., Burgess W.H., Jaye M., Schlessinger J.;
 RT "Cloning and expression of two distinct high-affinity receptors
 RT cross-reacting with acidic and basic fibroblast growth factors.";
 RL EMBO J. 9:2685-2692(1990).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=92282615; PubMed=1317750;
 RA Hattori Y., Odagiri H., Katoh O., Sakamoto H., Morita T.,
 RA Shimotohno K., Tobinai K., Sugimura T., Terada M.;
 RT "K-sam-related gene, N-sam, encodes fibroblast growth factor receptor
 RT and is expressed in T-lymphocytic tumors.";
 RL Cancer Res. 52:3367-3371(1992).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Liver;
 RX MEDLINE=91126480; PubMed=1846977;
 RA Hou J., Kan M., McKeehan K., McBride G., Adams P., McKeehan W.L.;
 RT "Fibroblast growth factor receptors from liver vary in three
 RT structural domains.";
 RL Science 251:665-668(1991).
 RN [5]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=92118399; PubMed=1662973;
 RA Kiefer M.C., Baird A., George-Nascimento C., Nguyen T., Mason O.B.,
 RA Boley L.J., Valenzuela P., Barr P.J.;
 RT "Molecular cloning of a human basic fibroblast growth factor receptor
 RT cDNA and expression of a biologically active extracellular domain in
 RT a baculovirus system.";
 RL Growth Factors 5:115-127(1991).
 RN [6]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Placenta;
 RX MEDLINE=90290512; PubMed=2162671;
 RA Itoh N., Terachi T., Ohta M., Seo M.K.;
 RT "The complete amino acid sequence of the shorter form of human basic
 RT fibroblast growth factor receptor deduced from its cDNA.";
 RL Biochem. Biophys. Res. Commun. 169:680-685(1990).
 RN [7]
 RP SEQUENCE OF 201-822 FROM N.A.
 RA Ruta M., Howk R., Ricca G., Drohan W., Zabelshansky M., Laureys G.,
 RA Barton D.E., Francke U., Schlessinger J., Givol D.;
 RT "A novel protein tyrosine kinase gene whose expression is modulated
 RT during endothelial cell differentiation.";
 RL Oncogene 3:9-15(1988).
 RN [8]
 RP SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING.

RX MEDLINE=90355989; PubMed=2167437;
 RA Johnson D.E., Lee P.L., Lu J., Williams L.T.;
 RT "Diverse forms of a receptor for acidic and basic fibroblast growth
 RT factors.";
 RL Mol. Cell. Biol. 10:4728-4736(1990).
 RN [9]
 RP ALTERNATIVE SPLICING.
 RX MEDLINE=91141499; PubMed=1847500;
 RA Gutkind S.J., Link D.C., Katamine S., Lacal P., Miki T., Ley T.J.,
 RA Robbins K.C.;
 RT "A novel c-fgr exon utilized in Epstein-Barr virus-infected B
 RT lymphocytes but not in normal monocytes.";
 RL Mol. Cell. Biol. 11:1500-1507(1991).
 RN [10]
 RP SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING.
 RC TISSUE=Lung;
 RX MEDLINE=91319400; PubMed=1650441;
 RA Eisemann A., Ahn J.A., Graziani G., Tronick S.R., Ron D.;
 RT "Alternative splicing generates at least five different isoforms of
 RT the human basic-FGF receptor.";
 RL Oncogene 6:1195-1202(1991).
 RN [11]
 RP SEQUENCE FROM N.A.
 RA Wennstroem S., Sandstroem C., Claesson-Welsh L.;
 RL Submitted (JUL-1990) to the EMBL/GenBank/DDBJ databases.
 RN [12]
 RP MUTAGENESIS OF TYR-766.
 RX MEDLINE=92357144; PubMed=1379697;
 RA Peters K.G., Marie J., Wilson E., Ives H.E., Escobedo J.,
 RA del Rosario M., Mirda D., Williams L.T.;
 RT "Point mutation of an FGF receptor abolishes phosphatidylinositol
 RT turnover and Ca²⁺ flux but not mitogenesis.";
 RL Nature 358:678-681(1992).
 RN [13]
 RP MUTAGENESIS OF TYR-766.
 RX MEDLINE=92357145; PubMed=1379698;
 RA Mohammadi M., Dionne C.A., Li W., Lin N., Spivak T., Honegger A.M.,
 RA Jaye M., Schlessinger J.;
 RT "Point mutation in FGF receptor eliminates phosphatidylinositol
 RT hydrolysis without affecting mitogenesis.";
 RL Nature 358:681-684(1992).
 RN [14]
 RP X-RAY CRYSTALLOGRAPHY (2.0 ANGSTROMS) OF 464-762.
 RX MEDLINE=96361355; PubMed=8752212;
 RA Mohammadi M., Schlessinger J., Hubbard S.R.;
 RT "Structure of the FGF receptor tyrosine kinase domain reveals a novel
 RT autoinhibitory mechanism.";
 RL Cell 86:577-587(1996).
 RN [15]
 RP X-RAY CRYSTALLOGRAPHY (2.4 ANGSTROMS) OF 464-762.
 RX MEDLINE=97284786; PubMed=9139660;
 RA Mohammadi M., McMahon G., Sun L., Tang C., Hirth P., Yeh B.K.,
 RA Hubbard S.R., Schlessinger J.;
 RT "Structures of the tyrosine kinase domain of fibroblast growth factor
 RT receptor in complex with inhibitors.";
 RL Science 276:955-960(1997).
 RN [16]

RP VARIANT PFEIFFER SYNDROME ARG-252.
 RX MEDLINE=95179173; PubMed=7874169;
 RA Muenke M., Schell U., Hehr A., Robin N.H., Losken H.W., Schinzel A.,
 RA Pulleyn L.J., Rutland P., Reardon W., Malcolm S., Winter R.M.;
 RT "A common mutation in the fibroblast growth factor receptor 1 gene in
 RT Pfeiffer syndrome.";
 RL Nat. Genet. 8:269-274(1994).
 CC -!- FUNCTION: RECEPTOR FOR BASIC FIBROBLAST GROWTH FACTOR. A SHORTER
 CC FORM OF THE RECEPTOR COULD BE A RECEPTOR FOR ACIDIC FGF (AFGF).
 CC -!- CATALYTIC ACTIVITY: ATP + a protein tyrosine = ADP + protein
 CC tyrosine phosphate.
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- ALTERNATIVE PRODUCTS: MANY FORMS OF FGFR1 ARE PRODUCED BY
 CC ALTERNATIVE SPLICING. THE FORM SHOWN HERE IS KNOWN AS ALPHA-A1.
 CC -!- DISEASE: DEFECTS IN FGFR1 ARE ONE OF THE CAUSES OF PFEIFFER
 CC SYNDROME (FS) (ALSO KNOWN AS ACROCEPHALOSYNDACTYLY TYPE V; ACS5);
 CC CHARACTERIZED BY CRANIOSYNOSTOSIS (PREMATURE FUSION OF THE SKULL
 CC SUTURES) WITH DEVIATION AND ENLARGEMENT OF THE THUMBS AND GREAT
 CC TOES, BRACHYMESOPHALANGY, WITH PHALANGEAL ANKYLOSIS AND A VARYING
 CC DEGREE OF SOFT TISSUE SYNDACTYLY.
 CC -!- DISEASE: Involved in a t(8;13)(p12;q12) chromosomal translocation
 CC which involves FGFR1 AND ZNF198. The resulting transcript is a
 CC possible candidate for stem cell leukemia lymphoma syndrome/SCLL.
 CC -!- SIMILARITY: BELONGS TO THE FIBROBLAST GROWTH FACTOR RECEPTOR
 CC FAMILY.
 CC -!- SIMILARITY: CONTAINS 3 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
 CC -----
 --
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 DR EMBL; X51803; CAA36101.1; -.
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 DR EMBL; Y00665; CAA68679.1; -.
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 DR EMBL; M60485; AAA35840.1; -.
 DR EMBL; M63887; AAA35958.1; -.
 DR EMBL; M34185; AAA35836.1; -.
 DR EMBL; M34186; AAA35837.1; -.
 DR EMBL; X57118; CAA40400.1; ALT_TERM.
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 DR EMBL; X57120; CAA40402.1; -.
 DR EMBL; X57121; CAA40403.1; -.
 DR EMBL; X57122; CAA40404.1; -.

DR EMBL; M34641; AAA35835.1; -.
 DR EMBL; A29216; CAA01958.1; -.
 DR PIR; S11692; TVHUGF.
 DR PIR; S25420; S25420.
 DR PIR; S26739; S26739.
 DR PDB; 1FGK; 23-JUL-97.
 DR PDB; 1FGI; 08-APR-98.
 DR PDB; 1AGW; 25-MAR-98.
 DR MIM; 136350; -.
 DR MIM; 101600; -.
 DR InterPro; IPR000719; Euk_pkinase.
 DR InterPro; IPR003006; Ig_MHC.
 DR InterPro; IPR003598; Ig_c2.
 DR InterPro; IPR001245; Tyr_pkinase.
 DR Pfam; PF00047; ig; 3.
 DR Pfam; PF00069; pkinase; 1.
 DR PRINTS; PR00109; TYRKINASE.
 DR SMART; SM00408; IGc2; 3.
 DR SMART; SM00219; TyrKc; 1.
 DR PROSITE; PS00107; PROTEIN_KINASE_ATP; 1.
 DR PROSITE; PS00109; PROTEIN_KINASE_TYR; 1.
 DR PROSITE; PS50011; PROTEIN_KINASE_DOM; 1.
 KW Receptor; Glycoprotein; Tyrosine-protein kinase; ATP-binding;

Query Match 99.6%; Score 4336; DB 1; Length 822;
 Best Local Similarity 99.6%; Pred. No. 3e-259;
 Matches 819; Conservative 0; Mismatches 1; Indels 2; Gaps 1;

Qy	1	MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLQLRCRLRDD	60
Db	1	MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLQLRCRLRDD	60
Qy	61	VQSINWLRDGVQLAESNRTRITGEEVEVQDSVPADSGLYACVTSSPSGKDTTYFSVNVSD	120
Db	61	VQSINWLRDGVQLAESNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSD	120
Qy	121	ALPSEDDDDDDSSSEEKETDNTKPN--PVAPYWTSPEKMEKKLHAVPAAKTVKFKCPS	178
Db	121	ALPSEDDDDDDSSSEEKETDNTKPNRMPVAPYWTSPEKMEKKLHAVPAAKTVKFKCPS	180
Qy	179	SGTPNPTLRWLKNGKEFKPDHRIGGYKVRATWSIIMDSVVPSDKGNYTCIVENEYGSIN	238
Db	181	SGTPNPTLRWLKNGKEFKPDHRIGGYKVRATWSIIMDSVVPSDKGNYTCIVENEYGSIN	240
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Qy	359	ALEERPAVMTSPLYLEIIIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSQMAVHKLAKS	418
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Qy	419	IPLRRQVTVSADSSASMNSGVLLVRPSRLSSSGTPMLAGVSEYELPEDPRWELPRDRLVL	478
Db	421	IPLRRQVTVSADSSASMNSGVLLVRPSRLSSSGTPMLAGVSEYELPEDPRWELPRDRLVL	480
Qy	479	GKPLGEGCFGQVVLAEAIGLDKDKPNRVTKVAVKMLKSDATEKDLSDLISEMEMMKMIGK	538
Db	481	GKPLGEGCFGQVVLAEAIGLDKDKPNRVTKVAVKMLKSDATEKDLSDLISEMEMMKMIGK	540
Qy	539	HKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLEYCYNPSHNPEEQSSKDL	598
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Qy	599	VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFGGLARDIHHIDYYKKTNG	658
Db	601	VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFGGLARDIHHIDYYKKTNG	660
Qy	659	RLPVKWMAPEALFDRIYTHQSDVWSFGVLLWEIFTLGGSPYPGPVPEELFKLLKEGHRMD	718
Db	661	RLPVKWMAPEALFDRIYTHQSDVWSFGVLLWEIFTLGGSPYPGPVPEELFKLLKEGHRMD	720
Qy	719	KPSNCTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQEYLDLSMPLDQYSPSF	778
Db	721	KPSNCTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQEYLDLSMPLDQYSPSF	780
Qy	779	PDTRSSTCSSGEDSVFSHEPLPEEPCLPRHPAQLANGGLKRR	820
Db	781	PDTRSSTCSSGEDSVFSHEPLPEEPCLPRHPAQLANGGLKRR	822

HUMFGF5H/c

SEQ ID NO:7

Sequence Comparison
C

LOCUS HUMFGF5H 1625 bp mRNA linear PRI 27-APR-1993
DEFINITION Human fibroblast growth factor receptor (FGFr) secreted form mRNA,
complete cds.
ACCESSION M34188
VERSION M34188.1 GI:182546
KEYWORDS FGF receptor; fibroblast growth factor receptor.
SOURCE Human female placenta endothelial cell line HUVEC, cDNA to mRNA,
clone h5.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1625)
AUTHORS Johnson,D.E., Lee,P.L., Lu,J. and Williams,L.T.
TITLE Diverse forms of a receptor for acidic and basic fibroblast growth
factors
JOURNAL Mol. Cell. Biol. 10, 4728-4736 (1990)
MEDLINE 90355989

COMMENT Draft entry and computer-readable sequence for [Unpublished (1990)]
kindly submitted
by D.E.Johnson, 10-MAY-1990.
Author address: D.E.Johnson
University of California San Francisco
4th and Parnassus
Howard Hughes Medical Institute
San Francisco, CA 94143
(415) 476-4297.

FEATURES Location/Qualifiers
source 1. .1625
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/db_xref="taxon:9606"
CDS 523. .1425
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BASE COUNT 368 a 480 c 489 g 288 t
ORIGIN

Query Match 100.0%; Score 30; DB 9; Length 1625;
Best Local Similarity 100.0%; Pred. No. 0.0028;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps
0;

Qy 1 ataacggaccttgtagcctccaattctgtg 30
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Db 879 ATAACGGACCTTGTAGCCTCCAATTCTGTG 850

Sequence Comparison D

LOCUS HSFLGMR 1974 bp mRNA linear PRI 28-JUL-1995
 DEFINITION Human flg (fms-like gene) mRNA for putative protein tyrosine kinase
 (partial).
 ACCESSION Y00665
 VERSION Y00665.1 GI:558583
 KEYWORDS tyrosine kinase.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1974)
 AUTHORS Ruta,M., Howk,R., Ricca,G., Drohan,W., Zabelshansky,M., Laureys,G.,
 Barton,D.E., Francke,U., Schlessinger,J. and Givol,D.
 TITLE A novel protein tyrosine kinase gene whose expression is modulated
 during endothelial cell differentiation
 JOURNAL Oncogene 3, 9-15 (1988)
 COMMENT On Oct 18, 1994 this sequence version replaced gi:31427.
 FEATURES Location/Qualifiers
 source 1. .1974
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 /db_xref="taxon:9606"
 mat_peptide <1. .1866
 /gene="flg"
 /product="tyrosine kinase"
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 /db_xref="taxon:9606"
 /chromosome="8p12"
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 gene 1. .1869
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 CDS <1. .1869
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 KSIPLRRQVTVSADSSASMSGVLLVRPSRLSSSGTPMLAGVSEYELPEDPRWELPRD
 RLVLGKPLGEGCFGQVVLAEAIGLDKDKPNRVTKVAVKMLKSDATEKDLSDLISEMEM
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 IDYYKKTNGRLPVKWMPEALFDRIYTHQSDVWSFGVLLWEIFTLGGSPYPGPVPEE
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 BASE COUNT 449 a 587 c 548 g 390 t
 ORIGIN

Query Match 100.0%; Score 30; DB 9; Length 1974;

Best Local Similarity 100.0%; Pred. No. 0.0027;
 Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps
 0;

Qy 1 ataacggaccttgttagcctccaattctgtg 30
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 Db 30 ATAACGGACCTTGTAGCCTCCAATTCTGTG 1

SEQ ID NO:8

Sequence Comparison E

LOCUS HSFLGMR 1974 bp mRNA linear PRI 28-JUL-1995
 DEFINITION Human flg (fms-like gene) mRNA for putative protein tyrosine
 kinase
 (partial).
 ACCESSION Y00665
 VERSION Y00665.1 GI:558583
 KEYWORDS tyrosine kinase.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1974)
 AUTHORS Ruta,M., Howk,R., Ricca,G., Drohan,W., Zabelshansky,M.,
 Laureys,G.,
 TITLE A novel protein tyrosine kinase gene whose expression is
 modulated
 during endothelial cell differentiation
 JOURNAL Oncogene 3, 9-15 (1988)
 COMMENT On Oct 18, 1994 this sequence version replaced gi:31427.
 FEATURES Location/Qualifiers
 source 1. .1974
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 /db_xref="taxon:9606"
 /chromosome="8p12"
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 gene 1. .1869
 /gene="flg"
 CDS <1. .1869
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 /codon_start=1
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 /protein_id="CAA68679.1"
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 /db_xref="SWISS-PROT:P11362"


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            /codon_start=1
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            /db_xref="GI:31378"
            /db_xref="SWISS-PROT:P11362"

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MEKKLHAVPAAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRIGGYKVRATWSIIMD
SVVPSDKGNYTCIVENEYGSINHTYQLDVVERSPhRPILQAGLPANKTVALGSNVEFM
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VWSFGVLLWEIFTLGSPYPGPVVEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAV
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BASE COUNT 613 a 787 c 740 g 522 t
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps
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Db      2553 GCGGCGTTTGAGTCCGCCATTGGCAAGCTG 2524

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Sequence Comparison 6

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DEFINITION Human shorter form basic fibroblast growth factor (bFGF) receptor
            mRNA, complete cds.
ACCESSION M37722
VERSION M37722.1 GI:179413
KEYWORDS fibroblast growth factor basic; receptor-like protein.
SOURCE Homo sapiens placenta cDNA to mRNA.
ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3328)
AUTHORS Itoh,N., Terachi,T., Ohta,M. and Seo,M.K.
TITLE The complete amino acid sequence of the shorter form of human
basic fibroblast growth factor receptor deduced from its cDNA
JOURNAL Biochem. Biophys. Res. Commun. 169 (2), 680-685 (1990)

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MEDLINE 90290512

FEATURES

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/db_xref="taxon:9606"

/tissue_type="placenta"

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sig_peptide 229. .288

CDS 229. .2424

/note="precursor"

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/db_xref="GI:179415"

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mat_peptide 289. .2421

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3'UTR 2425. .3328

BASE COUNT 777 a 946 c 902 g 703 t

ORIGIN

Query Match 100.0%; Score 30; DB 9; Length 3328;

Best Local Similarity 100.0%; Pred. No. 0.011;

Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 gcggcggtttgagtcgccattggcaagctg 30

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Db 2421 GCGGCGTTTGAGTCGCCATTGGCAAGCTG 2392

Sequence Comparison H

LOCUS HUMFGF2H 3365 bp mRNA linear PRI 27-APR-1993

DEFINITION Human fibroblast growth factor receptor (FGFr) transmembrane form mRNA, complete cds.

ACCESSION M34185

VERSION M34185.1 GI:182531

KEYWORDS FGF receptor; fibroblast growth factor receptor; transmembrane tyrosine kinase.

SOURCE Human umbilical vein endothelial cell line HUVEC, cDNA to mRNA, clone h2.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 3365)
 AUTHORS Johnson,D.E., Lee,P.L., Lu,J. and Williams,L.T.
 TITLE Diverse forms of a receptor for acidic and basic fibroblast
 growth factors
 JOURNAL Mol. Cell. Biol. 10, 4728-4736 (1990)
 MEDLINE 90355989
 COMMENT Draft entry and computer-readable sequence for [Unpublished
 (1990)]

kindly submitted
 by D.E.Johnson, 10-MAY-1990.
 Author address: D.E.Johnson
 University of California San Francisco
 4th and Parnassus
 Howard Hughes Medical Institute
 San Francisco, CA 94143
 (415) 476-4297.

FEATURES Location/Qualifiers
 source 1. .3365
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 CDS 256. .2457
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 transmembrane form"
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 /protein_id="AAA35836.1"
 /db_xref="GI:182532"

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 RSPHRPILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKIGPDNLPI
 VQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEER
 PAVMTSPLYLEIIIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHQSMAVHKLAKSIPL
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 KTTNGRLPVKWMAPALFDRIYTHQSDVWSFGVLLWEIFTLGGSPYPGPVVEELFKLL
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BASE COUNT 786 a 962 c 917 g 700 t
 ORIGIN

Query Match 100.0%; Score 30; DB 9; Length 3365;
 Best Local Similarity 100.0%; Pred. No. 0.011;
 Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps
 0;

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 Db 2454 GCGGCGTTTGTAGTCCGCCATTGGCAAGCTG 2425

WEST Search History

DATE: Tuesday, October 29, 2002

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L13	philip.in.	16090	L13
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L10	l8 and L9	31	L10
L9	pablo.in.	274	L9
L8	valenzuela.in.	87	L8
L7	l1 and l6	2	L7
L6	l4 and L5	2	L6
L5	keifer.in.	19	L5
L4	michael.in.	99349	L4
L3	L2 and composition	53	L3
L2	L1 and polynucleotide	55	L2
L1	human adj fibroblast adj growth adj factor	111	L1

END OF SEARCH HISTORY